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**SAFETY DATA SHEET**  
**PK 443 B**  
**PINE FOREST BATHROOM**  
**(BULLET)**



**Safety Data Sheet dated 16/5/2017, version 3**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1. Product identifier

Mixture identification:

Trade name: PK 443 B PINE FOREST BATHROOM

Trade code: START-UP 400230 – REFILL BOX 400240

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

Scented bathroom daily cleaner.

PROFESSIONAL USE.

Uses advised against:

Do not use for purposes other than those listed.

1.3. Details of the supplier of the safety data sheet

Company:

Co. Ind. s.c.

Via Saliceto 22/H

40013 Castel Maggiore BO - ITALY

Tel. +39 051 6328511 - Fax +39 051 701152

Competent person responsible for the safety data sheet:

allertasanificazione@coind.it

1.4. Emergency telephone number

Company emergency telephone number: Tel. +39 051 6328511 (8.00 – 17.00).

Poison centers (h24):

Ospedale Niguarda Ca' Granda di Milano Tel. +39 02 66101029.

Ospedale Pediatrico Bambino Gesù di Roma Tel. +39 06 68593726

Az. Osp. Univ. Di Foggia Tel. +39 0881 732326

Az. Osp. A. Cardarelli di Napoli Tel. +39 081 7472870

Policlinico Umberto I di Roma Tel. +39 06 49978000

Policlinico A. Gemelli di Roma Tel. +39 06 3054343

Az. Osp. Careggi U.O. Tossicologia Medica di Firenze Tel. +39 055 7947819

Centro Nazionale di Informazione Tossicologica di Pavia Tel. +39 0382 24444

Azienda Ospedaliera Papa Giovanni XXII di Bergamo Tel. +39 800883300

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Skin Corr. 1B, H314 Causes severe skin burns and eye damage.

Eye Dam. 1, H318 Causes serious eye damage.

Aquatic Acute 1, H400 Very toxic to aquatic life.

Aquatic Chronic 2, H411 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

## 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P260 Do not breathe spray.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection and face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or a doctor.

P391 Collect spillage.

P501 Dispose of container in accordance with local regulation.

Special Provisions:

None

Contains

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY-  
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-  
ALKYLDIMETHYL, CHLORIDES

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

ORANGE OIL TERPENES: May produce an allergic reaction.

EUCALYPTUS GLOBULUS, EXTRACT: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Ingredients comply with Regulation EC No.648/2004:

5 – 15%: EDTA, non ionic surfactants, cationic surfactants.

< 5%: Amphoteric surfactants.

Perfume (LIMONENE, BENZYL SALICYLATE, LINALOOL, CITRONELLOL, GERANIOL, ALPHA-  
ISOMETHYL IONONE).

## 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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















## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty           | Name  | Ident. Number  | Classification  |
|---------------|---|--|---|
| 10 – 15 %     | POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY-                    | CAS: 160875-66-1   |  3.1/4/Oral Acute Tox. 4 H302<br> 3.3/1 Eye Dam. 1 H318   |
| 5 – 8.5 %     | 3-METHOXY-3-METHYLBUTAN-1-OL  | CAS: 56539-66-3<br>EC: 260-252-4   |  3.3/2 Eye Irrit. 2 H319   |
| 4 - 7 %       | QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, CHLORIDES | CAS: 85409-22-9<br>EC: 939-350-2<br>REACH No.: 01-2119970550-39                              |  3.1/4/Oral Acute Tox. 4 H302<br> 3.3/1 Eye Dam. 1 H318<br> 3.2/1B Skin Corr. 1B H314<br> 4.1/A1 Aquatic Acute 1 H400<br> 4.1/C1 Aquatic Chronic 1 H410  |
| 4 - 6.5 %     | TETRASODIUM ETHYLENE DIAMINE TETRAACETATE   | Index number: 607-428-00-2<br>CAS: 64-02-8<br>EC: 200-573-9<br>REACH No.: 01-2119486762-27   |  3.1/4/Inhal Acute Tox. 4 H332<br> 3.9/2 STOT RE 2 H373<br> 3.3/1 Eye Dam. 1 H318<br> 3.1/4/Oral Acute Tox. 4 H302  |
| 0.2 – 0.3 %   | ORANGE OIL TERPENES; CITRUS TERPENES  | CAS: 8028-48-6<br>EC: 232-433-8<br>REACH No.: 01-2119493353-35                               |  2.6/3 Flam. Liq. 3 H226<br> 4.1/A1 Aquatic Acute 1 H400<br> 3.10/1 Asp. Tox. 1 H304<br> 3.2/2 Skin Irrit. 2 H315<br> 3.4.2/1 Skin Sens. 1 H317<br> 4.1/C1 Aquatic Chronic 1 H410 |
| 0.05 – 0.15 % | SODIUM HYDROXIDE; CAUSTIC SODA  | Index number: 011-002-00-6<br>CAS: 1310-73-2<br>EC: 215-185-5<br>REACH No.: 01-2119457892-27 |  2.16/1 Met. Corr. 1 H290<br> 3.2/1A Skin Corr. 1A H314<br> 3.3/1 Eye Dam. 1 H318  |
| 0.05 – 0.13 % | EUCALYPTUS GLOBULUS, EXTRACT  | CAS: 84625-32-1<br>EC: 283-406-2   |  2.6/3 Flam. Liq. 3 H226<br> 3.10/1 Asp. Tox. 1 H304<br> 3.2/2 Skin Irrit. 2 H315<br> 3.3/2 Eye Irrit. 2 H319   |

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|                  |                           |   |  |
|------------------|---------------------------|---|--|
|                  |                           |   | 3.4.2/1 Skin Sens. 1 H317<br>4.1/C2 Aquatic Chronic 2 H411 |
| 0.05 –<br>0.12 % | ETHANOL; ETHYL<br>ALCOHOL | Index number:<br>CAS:<br>EC:<br>REACH No.: 01-<br>2119457610-<br>43 | 2.6/2 Flam. Liq. 2 H225                                    |

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

After contact with skin, wash immediately with soap and plenty of water.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

##### 4.2. Most important symptoms and effects, both acute and delayed

No data available for the mixture. See section 11 for symptoms and effects of the substances.

##### 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet.

Carbon dioxide (CO<sub>2</sub>).

Powder.

Foam.

Extinguishing media which must not be used for safety reasons:

Water jets.

##### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from open flames, sparks, hot surfaces. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

See paragraph 10 below.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2.

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## **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

TLV STEL - C 1,22 ppm - C 2 mg/m<sup>3</sup>

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

TLV TWA - 1000 ppm, A4 - 1884,25 mg/m<sup>3</sup>, A4

TLV STEL - A4

**DNEL Exposure Limit Values**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-  
ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

Worker Industry: 5.7 mg/kg - Worker Professional: 5.7 mg/kg - Consumer: 3.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 3.96 mg/m<sup>3</sup> - Worker Professional: 3.96 mg/m<sup>3</sup> - Consumer: 1.64 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 3.4 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

Worker Industry: 2.5 mg/m<sup>3</sup> - Consumer: 1.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 2.5 mg/m<sup>3</sup> - Consumer: 1.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

Worker Industry: 1 mg/m<sup>3</sup> - Consumer: 1 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term (repeated)

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Worker Industry: 1900 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 950 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

**PNEC Exposure Limit Values**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-  
ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

Target: Fresh Water - Value: 0.0009 mg/l

Target: Marine water - Value: 0.00096 mg/l

Target: Periodic release - Value: 0.00016 mg/l

Target: Freshwater sediments - Value: 12.27 mg/kg

Target: Marine water sediments - Value: 13.09 mg/kg

Target: Microorganisms in sewage treatments - Value: 0.4 mg/l

Target: Soil - Value: 7 mg/kg

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

Target: Fresh Water - Value: 2.2 mg/l

Target: Marine water - Value: 0.22 mg/l

Target: Intermittent releases - Value: 1.2 mg/l

Target: Soil (agricultural) - Value: 0.72 mg/kg

Target: Microorganisms in sewage treatments - Value: 43 mg/l

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Target: Fresh Water - Value: 0.96 mg/l  
Target: Marine water - Value: 0.79 mg/l  
Target: STP - Value: 580 mg/l  
Target: Freshwater sediments - Value: 3.6 mg/kg  
Target: Marine water sediments - Value: 2.9 mg/kg  
Target: 09 - Value: 720 g/kg

## 8.2. Exposure controls

### General health and safety measures

Handle according to good industrial hygiene and safety practice, avoid contact with eyes and skin. Since the concentrated product is diluted in a closed system/process, in which the operator does not come into direct contact with the concentrated product, the use of special personal protective equipment is not required.

We always recommend the operator uses good industrial hygiene practices. Train the personnel.

### Safety measures recommended for handling the undiluted product:

HAND PROTECTION: Not required under normal conditions of use

EYE PROTECTION: Not required under normal conditions of use

SKIN PROTECTION: Not required under normal conditions of use

RESPIRATORY PROTECTION: Not required under normal conditions of use

Further to accidental bullet breakage, handle according to adequate good industrial hygiene and safety practice.

### Safety measures recommended for handling the diluted product:

HAND PROTECTION: In case of contact with the product, rinse hands after use. In the event of prolonged and/or repetitive use or individual sensitivity to the product, it may be appropriate to protect the hands

EYE PROTECTION: Not required under normal conditions of use

SKIN PROTECTION: Not required under normal conditions of use

RESPIRATORY PROTECTION: Not required under normal conditions of use

### Environmental exposure controls:

For information on environmental exposure controls, refer to the exposure scenarios (see Section 16 of this document).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| Properties                               | Value                   | Method: | Notes |
|--|-------------------------|---------|-------|
| Appearance and colour:                   | Clear green liquid      | --      | --    |
| Odour:                                   | Characteristic          | --      | --    |
| Odour threshold:                         | Not Relevant            | --      | --    |
| pH:                                      | 9,2                     | --      | --    |
| Melting point / freezing point:          | Not Relevant            | --      | --    |
| Initial boiling point and boiling range: | Not Relevant            | --      | --    |
| Flash point:                             | Not flammable           | --      | --    |
| Evaporation rate:                        | Not Relevant            | --      | --    |
| Solid/gas flammability:                  | Not applicable (liquid) | --      | --    |

|   |                |    |    |
|---|----------------|----|----|
| Upper/lower flammability or explosive limits: | Not Relevant   | -- | -- |
| Vapour pressure:                              | Not Relevant   | -- | -- |
| Vapour density:                               | Not Relevant   | -- | -- |
| Relative density:                             | 1.044 g/mL     | -- | -- |
| Solubility in water:                          | soluble        | -- | -- |
| Solubility in oil:                            | Not Relevant   | -- | -- |
| Partition coefficient (n-octanol/water):      | Not Relevant   | -- | -- |
| Auto-ignition temperature:                    | not applicable | -- | -- |
| Decomposition temperature:                    | Not Relevant   | -- | -- |
| Viscosity:                                    | Not Relevant   | -- | -- |
| Explosive properties:                         | Not explosive  | -- | -- |
| Oxidizing properties:                         | Non-oxidizing  | -- | -- |

#### 9.2. Other information

| Properties      | Value        | Method: | Notes |
|-----------------|--------------|---------|-------|
| Miscibility:    | Not Relevant | --      | --    |
| Fat Solubility: | Not Relevant | --      | --    |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

In normal condition of use and storage (see section 7) dangerous reactions are not expected.

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

In normal condition of use and storage dangerous reactions are not expected . Avoid contact with incompatible substances.

### 10.4. Conditions to avoid

Avoid overheating, electrostatic discharge and all sources of ignition.

### 10.5. Incompatible materials

Non-oxidizing agents, strong acids, strong bases.

Reducing agents.

### 10.6. Hazardous decomposition products

In case of fire or decomposition may spread gas and vapors potentially harmful for health as CO<sub>2</sub>, carbon mono-oxide and other irritating fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the product:

a) acute toxicity



Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Corr. 1B H314

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY- - CAS: 160875-66-1

a) acute toxicity:

Test: Respiratory Tract Irritant - Route: Inhalation Positive

Test: 06 Positive

b) skin corrosion/irritation:

Test: Skin Corrosive Positive

c) serious eye damage/irritation:

Test: Eye Corrosive Positive

3-METHOXY-3-METHYLBUTAN-1-OL - CAS: 56539-66-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4300 mg/kg

Test: LD50 - Route: Oral - Species: Mouse = 5830 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Positive

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-  
ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 397.5 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 3412 mg/kg

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Corrosive Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Negative

e) germ cell mutagenicity:

Test: In vitro chromosome aberration test Negative

Test: In vitro mammalian cell test Negative

Test: Bacterial Reverse Mutation Test Negative

Toxicological kinetics, metabolism and distribution information:

Test: NOAEL - Species: Rabbit = 30 mg/kg

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1780 mg/kg

Test: LC50 - Route: Inhalation = 1 mg/l/4h - Notes: Test BASF

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Negative - Notes: Test BASF (sol. 40%)

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization Negative

e) germ cell mutagenicity:

Test: Mutagenesis Negative

f) carcinogenicity:

Test: Carcinogenicity Negative

g) reproductive toxicity:

Test: Reproductive Toxicity Negative

h) STOT-single exposure:

Test: Acute toxicity Negative

i) STOT-repeated exposure:

Test: Chronic toxicity - Route: Inhalation Positive

ORANGE OIL TERPENES; CITRUS TERPENES - CAS: 8028-48-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

a) acute toxicity:

Test: Respiratory Tract Corrosive Positive - Notes: Burning sensation, sore throat, cough, breathing difficulty, shortness of breath, pulmonary oedema. Symptoms may be delayed.

Test: Corrosive injury to gastrointestinal tract Positive - Notes: Burning sensation, abdominal pain, shock or collapse.

b) skin corrosion/irritation:

Test: Skin Corrosive - Species: Rabbit Positive - Notes: Equivalent or similar method to OECD TG 404

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: Rabbit Positive - Notes: OECD TG 405 Method (2% solution)

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: Man Negative - Notes: OECD SID Method

e) germ cell mutagenicity:

Test: Mutagenesis Negative - Source: Environmental and Molecular Mutagenesis e NIOSH/00217350

f) carcinogenicity:

Test: Carcinogenicity Negative

g) reproductive toxicity:

Test: Genotoxicity Negative

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1501 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 5.9 mg/l - Duration: 6h

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 2 - H411

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY- - CAS: 160875-66-1

a) Aquatic acute toxicity:

Endpoint: EC20 - Species: Daphnia magna > 10 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae > 10 mg/l - Duration h: 72

3-METHOXY-3-METHYLBUTAN-1-OL - CAS: 56539-66-3

b) Aquatic chronic toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae > 1000 mg/l - Duration h: 72

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.515 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.016 mg/l - Duration h: 48

Endpoint: ErC50 - Species: Algae = 0.03 mg/l - Duration h: 96

Endpoint: EC50 - Species: MICRORG = 7.75 mg/l - Duration h: 3

Endpoint: LC50 - Species: Daphnia = 0.32 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 1.28 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.025 mg/l - Duration h: 504

Endpoint: NOEC - Species: Fish = 0.0322 mg/l - Duration h: 672

Endpoint: EC10 - Species: Algae = 0.009 mg/l - Duration h: 72

Endpoint: EC10 - Species: Algae = 0.096 mg/l - Duration h: 72

Endpoint: EC10 - Species: MICRORG = 4 mg/l - Duration h: 0.5

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

ORANGE OIL TERPENES; CITRUS TERPENES - CAS: 8028-48-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 12.3 mg/l - Duration h: 48

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 40.4 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 189 mg/l - Duration h: 48

#### 12.2. Persistence and degradability

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY- - CAS: 160875-66-1

Biodegradability: Readily biodegradable

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-  
ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

Biodegradability: Readily biodegradable - Test: CO<sub>2</sub> production - Duration h: 28 days - %: 95.5

Biodegradability: Readily biodegradable - Test: OECD TG 301 D - Duration h: 28 days - %: 63

Biodegradability: Readily biodegradable - Test: OECD TG 301 D - Duration h: 70d - %: 64

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

Biodegradability: Not readily biodegradable

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

It quickly oxidises in air by photochemical reaction

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Biodegradability: Readily biodegradable

#### 12.3. Bioaccumulative potential

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY- - CAS: 160875-66-1

Not bioaccumulative

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-  
ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

Low bioaccumulative - Test: Log Pow 2.75

Test: BCF - Bioconcentration factor = 67,62 - 160

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Not bioaccumulative - Test: BCF - Bioconcentration factor 1 - Notes: Read-across

#### 12.4. Mobility in soil

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

The product is poorly absorbed into the soil or sediments. Complete solubility in water, vaporization in the atmosphere.

#### 12.5. Results of PBT and vPvB assessment

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vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects  
None

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### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 1760  
IATA-UN Number: 1760  
IMDG-UN Number: 1760

14.2. UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides, sodium hydroxide)  
IATA-Shipping Name: CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides, sodium hydroxide)  
IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides, sodium hydroxide)

14.3. Transport hazard class(es)

ADR-Class: 8  
ADR - Hazard identification number: 80  
IATA-Class: 8  
IATA-Label: 8  
IMDG-Class: 8

14.4. Packing group

ADR-Packing Group: II  
IATA-Packing group: II  
IMDG-Packing group: II

14.5. Environmental hazards

ADR-Environmental Pollutant: Yes  
IMDG-Marine pollutant: Marine Pollutant  
Most important toxic component: Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides

14.6. Special precautions for user

|   |                |       |
|---|----------------|-------|
| ADR-Subsidiary risks:                             | -              |       |
| ADR-S.P.:   | 274            |       |
| ADR-Transport category (Tunnel restriction code): |                | 2 (E) |
| IATA-Passenger Aircraft:                          | 851            |       |
| IATA-Subsidiary risks:                            | -              |       |
| IATA-Cargo Aircraft:                              | 855            |       |
| IATA-S.P.:  | A3 A803        |       |
| IATA-ERG:   | 8L             |       |
| IMDG-EmS:   | F-A , S-B      |       |
| IMDG-Subsidiary risks:                            | -              |       |
| IMDG-Stowage and handling:                        | Category B SW2 |       |
| IMDG-Segregation:                                 | -              |       |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
Not applicable.

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## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Dir. 98/24/EC (Risks related to chemical agents at work)
- Dir. 2000/39/EC (Occupational exposure limit values)
- Regulation (EC) n. 1907/2006 (REACH)
- Regulation (EC) n. 1272/2008 (CLP)
- Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
- Regulation (EU) 2015/830
- Regulation (EU) n. 286/2011 (ATP 2 CLP)
- Regulation (EU) n. 618/2012 (ATP 3 CLP)
- Regulation (EU) n. 487/2013 (ATP 4 CLP)
- Regulation (EU) n. 944/2013 (ATP 5 CLP)
- Regulation (EU) n. 605/2014 (ATP 6 CLP)
- Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII  
Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

- Restriction 3
- Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

- Directive 2012/18/EU (Seveso III)
- Regulation (EC) nr 648/2004 (detergents).
- Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

- Seveso III category according to Annex 1, part 1
- Product belongs to category: E1, E2

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-  
ALKYLDIMETHYL, CHLORIDES

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H290 May be corrosive to metals.

H411 Toxic to aquatic life with long lasting effects.

H225 Highly flammable liquid and vapour.

H312 Harmful in contact with skin.

| Hazard class and hazard category | Code          | Description  |
|----------------------------------|---------------|--|
| Met. Corr. 1                     | 2.16/1        | Substance or mixture corrosive to metals, Category 1 |
| Flam. Liq. 2                     | 2.6/2         | Flammable liquid, Category 2                         |
| Flam. Liq. 3                     | 2.6/3         | Flammable liquid, Category 3                         |
| Acute Tox. 4                     | 3.1/4/Dermal  | Acute toxicity (dermal), Category 4                  |
| Acute Tox. 4                     | 3.1/4/Inhal   | Acute toxicity (inhalation), Category 4              |
| Acute Tox. 4                     | 3.1/4/Oral    | Acute toxicity (oral), Category 4                    |
| Asp. Tox. 1                      | 3.10/1        | Aspiration hazard, Category 1                        |
| Skin Corr. 1A                    | 3.2/1A        | Skin corrosion, Category 1A                          |
| Skin Corr. 1B                    | 3.2/1B        | Skin corrosion, Category 1B                          |
| Skin Irrit. 2                    | 3.2/2         | Skin irritation, Category 2                          |
| Eye Dam. 1                       | 3.3/1         | Serious eye damage, Category 1                       |
| Eye Irrit. 2                     | 3.3/2         | Eye irritation, Category 2                           |
| Skin Sens. 1                     | 3.4.2/1       | Skin Sensitisation, Category 1                       |
| Skin Sens. 1,1A,1B               | 3.4.2/1-1A-1B | Skin Sensitisation, Category 1,1A,1B                 |
| STOT RE 2                        | 3.9/2         | Specific target organ toxicity - repeated            |



|                   |        |  |
|-------------------|--------|--|
|                   |        | exposure, Category 2                           |
| Aquatic Acute 1   | 4.1/A1 | Acute aquatic hazard, category 1               |
| Aquatic Chronic 1 | 4.1/C1 | Chronic (long term) aquatic hazard, category 1 |
| Aquatic Chronic 2 | 4.1/C2 | Chronic (long term) aquatic hazard, category 2 |

Paragraphs modified from the previous revision:

- SECTION 1
- SECTION 2
- SECTION 3
- SECTION 4
- SECTION 5
- SECTION 6
- SECTION 7
- SECTION 8
- SECTION 9
- SECTION 10
- SECTION 11
- SECTION 12
- SECTION 13
- SECTION 14
- SECTION 15
- SECTION 16

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| <b>Classification according to Regulation (EC) Nr. 1272/2008</b> | <b>Classification procedure</b> |
|--|---------------------------------|
| Skin Corr. 1B, H314  | Calculation method              |
| Eye Dam. 1, H318   | Calculation method              |
| Aquatic Acute 1, H400  | Calculation method              |
| Aquatic Chronic 2, H411  | Calculation method              |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Exposure scenarios must be obtained from the following addresses:



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**SAFETY DATA SHEET**  
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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWA: Time-weighted average

WGK: German Water Hazard Class.